

FAB Academy Diploma Completion Checklist

{~} Anna Kaziunas France

Unit #	Unit Topic + Assignments Checklist	Complete?	Documentation Complete?	Neil's Assignment Page
Unit 1:	<ul style="list-style-type: none"> <input type="checkbox"/> Digital Fabrication Principles and Practices 	partial		digital_fabrication
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: 		NO	
	<ul style="list-style-type: none"> <input type="checkbox"/> week 1: design and document a self-reproducing machine 		YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> week 2: design and document a potential semester project 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Project: 		NO	
	<ul style="list-style-type: none"> <input type="checkbox"/> Self-reproducing machine - TBD 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Semester project 		YES	
Unit 2:	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Computer-Aided Design, Manufacturing and Modeling 	YES	YES	cad_cam_cae
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Assignment: 		YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> design a 3D model of a potential semester project 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> render it 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> animate it (shawn says don't need to complete) 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> extra credit: physically model it 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Project: 		YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Created 3-D model of TARDIS in Sketchup 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Physically Modeled it using wax molds and cast in hydrastone 			
Unit 3:	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Computer-Controlled Cutting 	YES	YES	computer_cutting
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Assignment: Make a press-fit construction kit 		YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Project: Laser-cut cards construction kit 		YES	
Unit 4:	<ul style="list-style-type: none"> <input type="checkbox"/> Electronics Design and Production 	YES	YES	electronics_design_production
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: make and program the serial hello-world: 	NO	NO	
	<ul style="list-style-type: none"> <input type="checkbox"/> Project: Hello Serial 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Mill board 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Stuff board 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Troubleshoot 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Program board 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Optional Project: Fab ISB Board 	YES	YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 1 board complete 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Program another board with the Fab ISB (optional) 			
Unit 5:	<ul style="list-style-type: none"> <input type="checkbox"/> Computer-Controlled Machining 	NO		computer_machining
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: Make something big (shopbot) 		NO	
	<ul style="list-style-type: none"> <input type="checkbox"/> Project: Modular Shelving - TBD 		NO	
Unit 6:	<ul style="list-style-type: none"> <input type="checkbox"/> Embedded Programming 	partial		embedded_programming
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: 		NO	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> read an AVR data sheet (ATTtiny 44) 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> make serial and programming cables 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Modify 			
	<ul style="list-style-type: none"> <input type="checkbox"/> add (at least) a button to the serial echo hello-world board 			
	<ul style="list-style-type: none"> <input type="checkbox"/> modify hello echo for FTDI 			
	<ul style="list-style-type: none"> <input type="checkbox"/> modify assembly to work with FTDI 			
	<ul style="list-style-type: none"> <input type="checkbox"/> modify the serial echo assembly program to respond to the button 			
	<ul style="list-style-type: none"> <input type="checkbox"/> modify the serial echo C program to respond to the button 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Project: Serial Echo (Hello Echo) 	YES	YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> mill board 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> stuff board 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> troubleshoot circuit 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> program board 			
Unit 7:	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 3D Molding and Casting 	YES	YES	molding_casting
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Assignment: machine a mold and cast parts in it 		YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Project: TARDIS multi-mold cast 		YES	
Unit 8:	<ul style="list-style-type: none"> <input type="checkbox"/> Collaborative Technical Development and Project Management 	partial		project_management
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: 		NO	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> build lab and personal pages in the class archive with your Fall work 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> posting to blog pages / documenting as I go 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Create "make anything" home page - project page 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Get AS220 space from shawn to link it all together. 			
	<ul style="list-style-type: none"> <input type="checkbox"/> contribute to tutorials in the class archive 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> prepare a schedule for your final project 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> revise schedule - puppet master project 			
Unit 9:	<ul style="list-style-type: none"> <input type="checkbox"/> 3D Scanning and Printing 	NO	NO	scan_print
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: scan an object 		NO	
	<ul style="list-style-type: none"> <input type="checkbox"/> extra credit: make the scanner 			

Unit #	Unit Topic + Assignments Checklist	Complete?	Documentation Complete?	Neil's Assignment Page
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: print an object 		NO	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> I put together the extruder head 	YES	YES	
	<ul style="list-style-type: none"> <input type="checkbox"/> extra credit: make the printer 			
	<ul style="list-style-type: none"> <input type="checkbox"/> extra credit: edit and print an object that you scanned 			
Unit 10:	<ul style="list-style-type: none"> <input type="checkbox"/> Sensors, Actuators, and Displays 	YES	YES	sensors_actuators_displays
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Assignment: interface an input device with an output device 	YES	YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Hello Step Response + Capacitive sensor 	YES	YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Modified hello step response for FTDI 	YES	YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Modify step response ASM to work with FTDI 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Project: Motion Sensing Glowing Skull 	YES	YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Completed with Arduino board 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Make new Fabian board to use with project? 			
	<ul style="list-style-type: none"> <input type="checkbox"/> make hello sensors to use with project? 			
	<ul style="list-style-type: none"> <input type="checkbox"/> fix infinite loop in code? 			
Unit 11:	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Interface and Application Programming 	YES	YES	implications_applications
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Assignment: 		YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Write a user interface for an input &/or output device 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Project: 		YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Using a GUI to Control Processing Output with ControllIP5, Firmata via Serial 			
Unit 12:	<ul style="list-style-type: none"> <input type="checkbox"/> Embedded Networking and Communications 	partial	NO	embedded_networking_communications
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: build a network with at least two nodes 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Project: Hello Radio 		NO	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Milled boards 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Ordered parts 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Stuff boards 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Troubleshoot 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Get boards talking 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Project: Internet 0 		NO	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Milled out boards: 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 2 leaf nodes 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 1 serial 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> 1 hub 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> made cables + headers 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Stuff Boards 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Troubleshoot 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Programming Boards 			
	<ul style="list-style-type: none"> <input type="checkbox"/> Working Network 			
Unit 13:	<ul style="list-style-type: none"> <input type="checkbox"/> Machine Design 	partial	NO	machine_design
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: Make a machine (group project) 		NO	
	<ul style="list-style-type: none"> <input type="checkbox"/> Project: Mantis Milling Machine 		NO	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> I glued some parts 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> I put together the spindle 	YES	YES	
	<ul style="list-style-type: none"> <input type="checkbox"/> Document The Mantis - For Credit with Noah and Makeda 			
Unit 14:	<ul style="list-style-type: none"> <input type="checkbox"/> Digital Fabrication Applications and Implications 	partial	NO	digital_fabrication
	<ul style="list-style-type: none"> <input type="checkbox"/> Assignment: 		NO	
	<ul style="list-style-type: none"> <input type="checkbox"/> complete missed assignments (working on it) 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> document missed assignments 			
	<ul style="list-style-type: none"> <input type="checkbox"/> contribute to and translate tutorials 			
	<ul style="list-style-type: none"> <input type="checkbox"/> write tutorial on compiling gravgasm / installing free pascal on os X 10.4.11 tiger 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> develop a page describing your final project, including a timeline for the steps and schedule for its completion 			
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> read over resources on assignments page 			
Unit 15:	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Invention, Intellectual Property, and Business Models 	YES	YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Assignment: develop a plan for distributing your final project 		YES	
Unit 16:	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Digital Fabrication Project Development 	YES	YES	
	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> final project documentation 			